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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/995,077	11/26/2001	Frederick Michael Mako	MAKO-8 CONT III	1512
75	90 05/06/2003	•		
Ansel M. Schv	vartz	EXAMINER		
Suite 304 201 N. Craig Str			LEE, BENNY T	
Pittsburgh, PA	15213		ART UNIT	PAPER NUMBER
112006 5			2817	
			DATE MAILED: 05/06/2003	
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Please find below and/or attached an Office communication concerning this application or proceeding.



UNITED STATE DEPARTMENT OF COMMERCE Patent and Tr mark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231 UNITED STATES Patent and Tr

SERIAL NUMBER F	ILING DATE	FIRST NAMED APPLICANT			A1	ATTORNEY DOCKET NO.	
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This application has been examined	Responsive to commu	nication filed on 19 F	eh 2003 This act	ion is made final.
A shortened statutory period for response to Failure, to respond within the period for responder	• • • •		days from the date of t 35 U.S.C. 133	his letter.
Part I THE FOLLOWING ATTACHMEN 1. Notice of References Cited by E 3. Notice of Art Cited by Applicant 5. Information on How to Effect Dra	xaminer, PTO-892. , PTO-1449	2. Notice re P	atent Drawing, PTO-948. Iformal Patent Application	1, Form PTO-152
Part II SUMMARY OF ACTION			.•	
1. Claims	_1-9	•	are pendi	ng in the application.
Of the above, claims		·	are withd	rawn from consideration.
2. Claims			have been	cancelled.
3.: Claims			are allowed	ed.
4. Claims	1-8:9		are reject	ed.
5. Claims	J ,		are object	ed to.
6. Claims		ar	e subject to restriction or	"election requirement.
7. This application has been filed w	ith informal drawings which a	are acceptable for examina	tion purposes until such t	lime as allowable subject
matter is indicated. 8. Allowable subject matter having to	peen Indicated, formal drawing	gs are required in respons	e to this Office action.	
9. The corrected or substitute drawing not acceptable (see explanation).	-	·	These drawings are.	acceptable;
10. The proposed drawing correct has (have) been approved by				
11. The proposed drawing correction, the Patent and Trademark Office corrected. Corrections MUST be EFFECT DRAWING CHANGES",	no longer makes drawing char effected in accordance with ti	iges. It is now applicant	s responsibility to ensure	that the drawings are
12. Acknowledgment is made of the c	laim for priority under 35 U.S.	.C. 119. The certified cop	y has been received	not been received
been filed in parent application	on, serial no.	; filed on _		·
13. Since this application appears to accordance with the practice under			prosecution as to the me	rits is closed in
14. Other				
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EXAMINER'S ACTION

PTOL-326 (Rev. 7 - 82)

SN 995077

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Part III DETAILED ACTION

The disclosure is objected to because of the following informalities: Page 3, line 29 & page 11, line 8, note that it remains unclear whether "rhombohedrion" is the correct spelling. Page 32, line 31, note that "FMTSEC" remains vague in meaning. Page 45, lines 1, 2, note that "dicotron instability" remains vague in meaning. In general, applicants' should review and, where necessary, revise the specification to ensure that all elements labeled in the drawing figures are correspondingly described in the specification. Appropriate correction is required.

The drawings are objected to because reference labels should be provided for those figures depicting schematic aspects of the invention. In general, the drawing figures should contain reference labels correspondingly described in the specification. Correction is required.

The drawings are objected to under 37 CAR § 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the circular or rhombohedron shape screens respectively must be shown or the feature canceled from the claim. No new matter should be entered.

Applicants' are required to address this objection in the next response.

Claims 1-9 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

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With respect to claims 1 & 9, there does not appear to be any support in the original specification for the limitation of "N is an integer greater than or equal to one". With respect to claim 1, there does not appear to be support in the original specification that the claimed expression is raised to the "N" power as recited in the claim. Note from the specification that the corresponding expression is raised to the "t0/2t1" power as disclosed at the bottom of page 13. Furthermore, there is no apparent disclosure of the equivalence of t1. With the claimed. Accordingly, these limitations have been treated as "new matter" absent any explanation of why they should not be considered "new matter".

Claims 1-9 are rejected under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 1, it remains unclear in what manner does the "force" (i.e. a non-physical characteristic) "encompasses" the emitting surface and section (i.e. a physical feature).

Moreover, the nature of the electron flow between the emitting surface & the section still needs to be clarified. If unidirectional electron flow is what is intended, then it should be clearly claimed. If some other mechanism of electron flow is intended, then such mechanism should be clearly claimed. Even in light of the specification & applicants' comments, this point remains unclear. Moreover, it is unclear the relationship between the parameters "N" and "N" (i.e. the same, different, etc). Clarification is needed.

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In claim 4, note that it is unclear how the "force" (recited herein) is related to the earlier recited instance of "force". For example, is it related to the "oscillating force" recited in claim 1 or to the "force" recited in claim 2, since this claim indirectly depends from both claims? Accordingly, should --oscillating-- precede "force" in line 3? Clarification is needed.

In claim 8, it remains unclear which screen is intended by the recited "screen".

Applicants' comments indicate that "one or any specific number of screens" is intended. If such is the case, then the claim should be amended to reflect such a situation.

In claim 9, last paragraph, note that reference to "section" is vague in meaning. Clarification is needed.

The claims has been found objectionable for reasons set forth below:

In claim 1, second paragraph, note that --electron-- should precede "emitting" & "a transmitting" should be rephrased as --an electron transmitting--; last paragraph, note that --transmitting and emitting-- should precede appropriate occurrences of "section".

Claims 1-9 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL.** See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CAR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO

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MONTHS of the mailing date of this final action and the advisory action is not mailed until

after the end of the THREE-MONTH shortened statutory period, then the shortened statutory

period will expire on the date the advisory action is mailed, and any extension fee pursuant

to 37 CAR 1.136(a) will be calculated from the mailing date of the advisory action. In no

event, however, will the statutory period for reply expire later than SIX MONTHS from the

date of this final action.

Any inquiry concerning this communication should be directed to Benny Lee at

telephone number (703) 308 4902.

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